48 FR 9379

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48 FR 9379

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National Toxicology Program; Chemicals (11) Nominated for Toxicological Testing: Request for Comments

SUMMARY: On November 17, 1982, the Chemical Evaluation Committee (CEC) of the **National Toxicology Program** (NTP) met to review 11 chemicals nominated for toxicological testing and to recommend the types of testing to be performed. With this notice, the NTP solicits public comment on the 11 chemicals listed herein.

FOR FURTHER INFORMATION AND SUBMISSION OF COMMENTS, CONTACT: Dr. Dorothy Canter, Assistant to the Director, **National Toxicology Program,** Room 2B55, Building 31, National Institutes of Health, Bethesda, Maryland 20205, (301) 496-3511.

TEXT: SUPPLEMENTARY INFORMATION: As part of the chemical selection process of the National Toxicology Program, nominated chemicals which have been reviewed by the NTP Chemical Evaluation Committee (CEC) are published with request for comment in the Federal Register and *NTP Technical Bulletin.* This enables outside individuals and groups to participate in the NTP evaluation process thereby helping the NTP to make better informed decisions as to whether to select, reject or defer chemicals for testing.

Relevant comments and data submitted in response to this request are reviewed and summarized by NTP technical staff and then forwarded to the NTP Board of Scientific Counselors for its evaluation of the nominated chemcials and to the NTP Executive Committee for its decision making about testing. The NTP chemical selection process is summarized in the Federal Register, April 14, 1981 (46 FR 21828), and also in the NTP FY 1982 Annual Plan, pages 137-139.

On November 17, 1982, the CEC evaluated 11 chemicals nominated to the NTP for toxicological testing. The table below lists each chemical, its Chemical Abstracts Service (CAS) registry number, and the types of testing recommended by the CEC.

Chemical	CAS NO.	Committee recommendation
1. Atrazine	1912-24-9	Deferred (see below).
2. 1,3-Dinitropyrene n1	75321-20-9	*In vitro* cytogenetics. Mouse lymphoma assay. Other appropriate short-term tests.
3. 1,6-Dinitropyrene n1	42397-64-8	*In vitro* cytogenetics. Mouse lymphoma assay. Other appropriate short-term tests.
4. 1,8-Dinitropyrene n1	42397-65-9	*In vitro* cytogenetics. Mouse lymphoma assay. Other appropriate short-term tests.
5. 1-Nitropyrene	5522-43-0	*In vitro* cytogenetics. Mouse lymphoma assay. Other appropriate short-term tests. Carcinogenicity (inhalation). Co-carcinogenesis study with benzo(a)pyrene.
6. Ordram (Molinate)	2212-67-1	Deferred (see below).
7. Roundup (Glyphosate isopropylamine salt)	38641-94-0	Deferred (see below).
8. 2,3,4,6-Techrachlorophenol	58-90-2	Deferred (see below).
9. 1,3,6,8-Tetranitropyrene	28767-61-5	*In vitro* cytogenetics. Mouse lymphoma assay.

Chemical	CAS NO.	Committee recommendation
		Other appropriate short-term tests.
10. 2,4,7-Trinitrofluorenone	129-79-3	90-day subchronic skin painting study.
11. 1,3,6-Trinitropyrene	75321-19-6	*In vitro* cytogenetics. Mouse lymphoma assay. Other appropriate short-term tests.

n1 A mixture of the three dinitropyrenes (1,3-, 1,6-, and 1,8- dinitropyrene) was also recommended by the CEC for *in vitro* cytogenetics testing, the mouse lymphoma assay, other appropriate short-term tests, inhalational carcinogenicity testing, a co-carcinogenesis study with benzo(a)pyrene, and an inhalational teratology study. The CEC's testing recommendations were based upon concern about potential occupational and environmental exposures to these compounds and upon the desirability of complementing and extending the toxico logical studies underway at the Environmental Protection Agency (EPA) on a mixture of the dinitropyrenes. The CEC recommended that the NTP ascertain the composition of the mixture that is being tested by EPA so that the Program can procure a mixture containing the same proportions of the three dinitropyrenes.

The four herbicides listed above, namely atrazine, ordram, roundup, and 2,3,4,6-tetrachlorophenol, were deferred by the CEC pending a review by EPA and NTP staff of the data submitted to the EPA Office of Pesticide Programs in support of the registration of these chemicals. Testing recommendations on these chemicals will be made at a subsequent CEC meeting.

A proposal for NTP reproductive effects testing of four aliphatic aldehydes, namely citral, crotonaldehyde, formaldehyde, and furfural, was also evaluated by the CEC following a review by several members of the Committee of the data on 12 aliphatic aldehydes under test by the NTP for various other toxicological endpoints. The CEC added butyraldehyde to the list of four compounds and recommended all five aldehydes for reproductive effects testing. Formaldehyde was recommended for an inhalational teratology study in rats and a two-generation reproductive study by the inhalation exposure route in rats. The remaining four aldehydes were each recommended for a teratology study. In addition, the CEC recommended that all five aldehydes receive consideration for testing in a three-generation *Drosophila* assay currently being evaluated by the National Institute for Occupational Safety and Health and the National Center for Toxicological Research.

Interested parties are requested to submit pertinent information. The following types of data are of particular relevance:

(1) Completed, ongoing and/or planned toxicological testing in the private sector including detailed experimental protocols and, in the case of completed studies, resultant data.

(2) Modes of production, present production levels, and occupational exposure potential.

(3) Uses and resulting exposure levels, where known.

(4) Results of toxicological studies for structurally related compounds.

Please submit all information in writing by (thirty days after date of publication). Any submissions received after the above date will be accepted and utilized where possible.

Dated: February 28, 1983.

David P. Rall,

Director, National Toxicology Program.

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